

IN THE CLAIMS:

Please amend the claims as follows:

1. (Original) A modular control system for an AC motor, comprising:
a drive module housing an AC drive, the AC drive interconnecting the AC motor to a utility power source;
a control module housing a control structure for controlling operation of the AC drive;
a redundant power supply operatively connected to the control structure for supplying electrical power to the control structure; and
an intermediate module interconnecting the control module and the drive module so as to electrically couple the control structure and the AC drive and to allow the control structure to transmit operating instructions to the AC drive therethrough.
2. (Original) The modular control system of claim 1 wherein the control structure includes a control circuit operatively connected to the AC drive and a user interface for allowing a user to program the control circuit.
3. (Original) The modular control system of claim 2 wherein the intermediate module houses a bypass circuit for interconnecting the AC motor to the utility power source in response to failure of the AC drive.
4. (Original) The modular control system of claim 3 wherein the control circuit is operatively connected to the bypass circuit for allowing a user to program the bypass circuit.

5. (Original) The modular control system of claim 2 wherein the intermediate module houses a disconnect circuit for interconnecting the AC drive to the utility power source, the disconnect circuit disconnecting the AC drive from the power source in response to a user selected condition on the AC motor.

6. (Original) The modular control system of claim 2 wherein the user interface includes a keypad.

7. (Original) The modular control system of claim 1 further comprising a power module selectively connectable to the control structure, the power module including a secondary power source for supplying electrical power to the control structure independent of the utility power source.

8. (Original) The modular control system of claim 1 wherein the redundant power supply is provided in the control module so as to allow the control circuit to communicate with the AC drive therethrough.

9. (Original) A drive system for an AC motor, comprising:
a power unit housing an AC drive, the AC drive connectable to the AC motor and to a power source;
an interface unit housing a programmable control circuit that controls operation of the AC drive;
a redundant power supply operatively connected to the control circuit for supplying electrical power to the control structure; and
an intermediate unit disposed between and interconnecting the power unit and the interface unit.

10. (Original) The drive system of claim 9 herein the power unit includes a housing having an interior for receiving the AC drive therein, the AC drive having an input connectable to a power source and an output connectable to the AC motor.

11. (Original) The drive system of claim 9 wherein the interface unit includes:
a housing having an interior for receiving the control circuit; and
a user interface for allowing a user to program the control circuit.

12. (Original) The drive system of claim 11 herein the user interface includes a keypad and a display.

13. (Original) The drive system of claim 9 wherein the intermediate unit includes:
a housing having an interior; and
a bypass circuit received with the interior of the housing and being connected in parallel with the AC drive, the bypass circuit interconnecting the AC motor to the power source in response to failure of the AC drive.

14. (Original) The drive system of claim 9 wherein the intermediate unit includes:
a housing having an interior; and
a disconnect circuit received with the interior of the housing and being connected in series with the AC drive, the disconnect circuit disconnecting the AC drive from the power source in response to a predetermined condition.

15. (Original) The drive system of claim 9 further comprising a power supply unit having a power supply selectively connectable to the control circuit for providing electrical power to the control circuit independent of the power source.

16. (Currently Amended) The drive system of claim 9 wherein the redundant power supply is housed in the interface [module] unit.

17. (Original) A drive system for an AC motor, comprising:
a power module housing an AC drive, the AC drive connectable to the AC motor and to a power source;
an interface module housing a programmable control circuit that controls operation of the AC drive; and
a power supply unit having a power supply selectively connectable to the control circuit for providing electrical power to the control circuit independent of the power source.

18. (Original) The drive system of claim 17 wherein the power module includes a housing having an interior for receiving the AC drive therein, the AC drive having an input connectable to a power source and an output connectable to the AC motor.

19. (Original) The drive system of claim 17 wherein the interface module includes:
a housing having an interior for receiving the control circuit; and
a user interface for allowing a user to program the control circuit.

20. (Original) The drive system of claim 17 further comprising an intermediate module disposed between and interconnecting the power module and the interface module.

21. (Original) The drive system of claim 20 wherein the intermediate module includes:

a housing having an interior; and

a bypass circuit received with the interior of the housing and being connected in parallel with the AC drive, the bypass circuit interconnecting the AC motor to the power source in response to failure of the AC drive.

22. (Original) The drive system of claim 20 wherein the intermediate module includes:

a housing having an interior; and

a disconnect circuit received with the interior of the housing and being connectable in series with the AC drive, the disconnect circuit disconnecting the AC drive from the power source in response to a predetermined condition.

23. (Original) The drive system of claim 17 further comprising a redundant power supply operatively connected to the control circuit for supplying electrical power to the control circuit.